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KEPLER-BRADLEY LAKES BRIDGE, Matanuska-Susitna Borough, Alaska



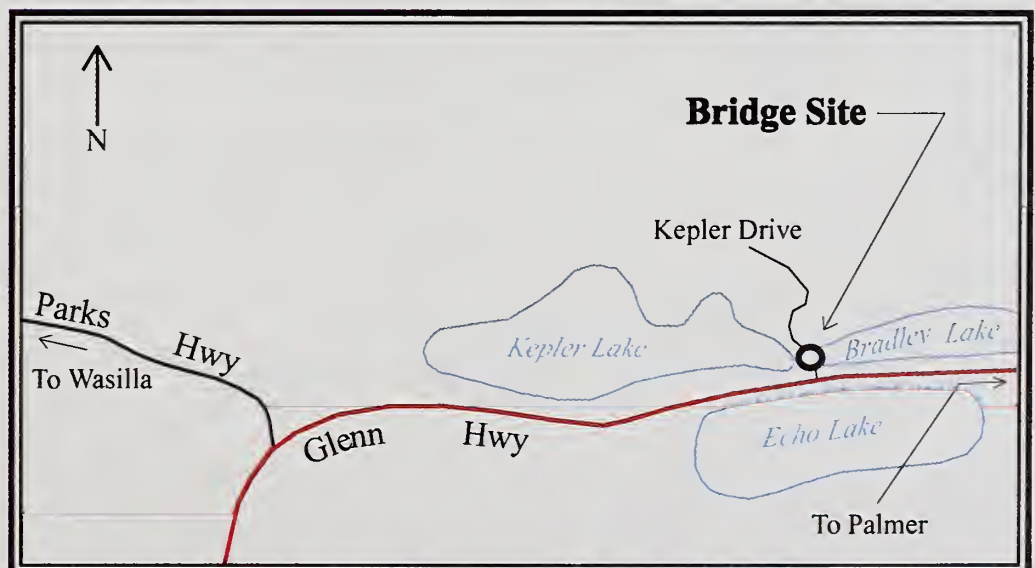
U.S.D.A., NAL

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Cataloging Prep

Type: Stress-laminated deck
Borough: Matanuska-Susitna
Owner: Matanuska-Susitna Borough
Built in: 1998
Fabricator: Alaska Forest Products
Engineer: George Strother
Spans over: Unnamed stream
Bridge length: 16'-0"
Roadway width: 12'-0"

Directions: From Wasilla, travel east on the Parks Highway to the intersection of Parks Highway and the Glenn Highway. Take the Glenn Highway east towards Palmer and travel 1.5 miles to the intersection of the Glenn Highway and Kepler Drive. Turn left onto Kepler Drive. The bridge site is visible from the highway.



USDA Forest Service

MAT-SU
R&D



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WIT-15-0023

GEOMETRY

Number of Spans: 1
 Out-to-out length: 16'-0"
 Center-of-bearing length: 15'-0"
 Skew: 0 degrees
 Number of lanes: 1
 Out-to-out width: 16'-6" (includes walkway)
 Curb-to-curb width: 12'-0" (roadway)
 Superstructure square footage: 240

Design load: AASHTO HS-20
 Averaged daily traffic: 20
 Design by: Peratrovich, Nottingham & Drage, Inc.
 Abutment material: Wood
 Abutment wood quantity: 2760 bf

Total wood quantity: 6,990 bf
 Total project cost: \$58,735
 Superstructure wood quantity: 4230 bf
 Total superstructure cost: \$19,940
 Total superstructure cost /sq. ft.: \$83 (includes walkway)

MATERIAL**DECK**

Material: Wood
 Grade: #1
 Species: Alaska white spruce
 Sizes used: 2" x 12" x 16'
 Quantity: 3000 bf
 Drying method: Air dry
 Preservative treatment: Copper sulfate & sodium fluoride
 Method: Double diffusion

BEAMS/STRINGERS (none)**GUIDERAIL/HANDRAIL POSTS**

Material: Wood
 Grade: #1
 Species: Alaska white spruce
 Quantity: 340 bf
 Drying method: Air dry
 Preservative treatment: Copper sulfate & sodium fluoride
 Method: Double diffusion

GUIDERAIL CURB

Material: Wood
 Grade: #1
 Species: Alaska white spruce
 Size: 10" x 10"
 Quantity: 450 bf
 Preservative Treatment: Copper sulfate & sodium fluoride

HANDRAIL

Material: Wood
 Species: Alaska white spruce
 Preservative treatment: Copper sulfate & sodium fluoride

STRESSING STEEL

Grade: ASTM A722
 Manufacturer: Dywidag
 Bar Diameter: 1"
 Coating: Galvanized
 Quantity: 90 lf
 Bearing plate size: 9" x 12"

FUNDING SOURCES: USDA Forest Service: \$26,635; Balance of funding from Mat-Su Borough and Mat-Su RC&D Council

LOCAL CONTACT: Rhoda Portis, Coordinator
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Information provided by Mat-Su RC&D Council

WIT Program Proposal Number: R10-03-95

Federal Grant Identifier: 95G-10-055

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State & Private Forestry

Alaska Region

The National Wood In
 Transportation Program

